明治十九年七月刊行

明治十九年三月
廿三日出版屆濟

定價金拾三錢

觀測士 海軍大尉 山崎喜勝閑
觀測助手 海軍一等技手 中川將行
同 海軍二等技手 伊藤直温
同 海軍屬 岩間侃次郎
同 海軍八等技手 小澤兼藏
同 海軍屬 日比翁輔
同 海軍屬 白井正信
同 海軍十等技手 永江董

(Signed) Observer.
Y. Yamazaki.

Assistant.
M. Nakagawa.
" N. Itō.
" K. Iwama.
" K. Ozawa.
" O. Hibi.
" M. Shirai.
" T. Nagaye.

REMARKS.

Day.
1 R.; C. after 9 a.m.; R. after 3 p.m.
2 C.; B. after 9 a.m.; E. 0 33 p.m.
3 *d.* in a.m.; *f.d.* in p.m.
4 C.; *f.d.* after 9 a.m.; C. after 2 p.m.
5 M. in morning; *f.d.*
6 B.
7 *d.*; B. after 9 a.m.
8 M. in morning; *f.p.* all day.
9 *f.p.* all day.
10 M. in morning; *f.p.* C after 4 p.m.; T. in N. & P. 4 p.m.; *r. b.* 7 p.m.; B. in night.
11 *f.d.* in day; *f.p.* in night.
12 D. in a.m.; B. in p.m.
13 M. in morning; B. after 9 a.m.; C. after 3 p.m.; R. in a few minutes at 5 p.m.; T. at 8 p.m.
14 B.; Temperature unusually raised (96°.3 F. Max.)
15 *f*, & *f.d.* all day.
16 B.; C. after 5 p.m.; T. in N.W. at 7 p.m. & light rain.
17 C. with R. at intervals.
18 Ditto.
19 R. frequently in a.m.; *f.d* in p.m.
20 R. 3 a.m.—5 a.m.; *f.d.*; *r. b.* at 5 p.m.; T. after 10 p.m.; and R. in a few minutes.
21 T. frequently after 1 a.m.; *r. b.* in S.W. at 7 a.m.; T. & R. at intervals; L. at 7 p.m.; *f.d.* in night.
22 *d.*; B. after 7 a.m.
23 B. in a.m.; *f.d.* in p.m.
24 *f.d.* in a.m.; *f.p.* in p.m.
25 *d.* in day; B. in night.
26 *d.*; B. in night.
27 M. in morning; B. after 7 a.m; C. after 3 p.m.; T. at 4. p.m.; *r. b.* at 5 p.m.; R. at intervals in night.
28 *d.*; R. frequently after 7 p.m.
29 R. at intervals; D. after 8 a.m. and with B. at intervals in night.
30 D. with B. at intervals in night.
31 *f.d.*; *f.p.* after 5 p.m.

記事

一日 午前九時迄降雨後陰天午後三時頃ヨリ復降雨

二日 午前九時頃マテ陰天爾後晴午後零時三十三分頃地震ス

三日 午前薄陰午後薄晴

四日 午前九時マテ陰天後薄晴午後一時過復陰

五日 半晴朝霧アリ

六日 晴

七日 午前九時頃マテ薄陰爾後晴

八日 終日快晴朝霧アリ

九日 終日快晴

十日 快晴拂曉濃霧アリ午後四時頃ヨリ陰其際北方ニ雷鳴シ暫時ノ間驟雨同七時過斷虹現シ夜來晴

十一日 晝間薄晴夜間快晴

十二日 午前薄陰午後晴

十三日 午前七時頃マテ濃霧後漸ク霽レ午後三時後陰同五時過暫時ノ間降雨シ同八時頃遠雷ヲ聞ク

十四日 晴　本日温度頗ル昇騰シ高極九十六度三ヲ示ス

十五日 終日晴或ハ半晴

十六日 晴午後五時過ヨリ陰七時頃北西ニ遠雷シ暫時降雨ス

十七日 陰天時々降雨

十八日 陰天時々微雨

十九日 午前屢々降雨午後半晴

二十日 午前三時ヨリ同五時マテ降雨爾後薄晴午後五時頃斷虹現シ同十時過雷鳴シ後復暫時降雨ス

廿一日 午前一時過時々雷鳴シ同七時過南西ニ斷虹現シ後屢々雷雨午後七時過電光アリ夜來薄晴

廿二日 午前七時頃マテ薄陰爾後晴

廿三日 午前晴午後半晴

廿四日 午前半晴午後快晴

廿五日 晝間薄陰夜間晴

廿六日 薄陰夜來晴

廿七日 午前七時頃マテ濃霧後晴午後三時過曇四時頃ヨリ雷鳴シ五時過虹現シ夜來時々降雨

廿八日 薄陰午後七時頃ヨリ時々降雨

廿九日 午前八時マテ屢々微雨爾後薄陰夜來時々晴

三十日 薄陰夜ニ入リ時々晴

卅一日 薄晴午後五時過ヨリ快晴

地平磁針力
HORIZONTAL INTENSITY.

3rd Beginning time $3^h\ 20^m$ P. M. / Ending time 4 47

三日午後三時二十分ヨリ同四時四十七分ニ至ル

偏針角 Deflections.

磁氣 Mag.	北端 North end.	No.	A ° ′ ″	B ′ ″	Mean. ′ ″	No.	A ° ′ ″	B ′ ″	Mean. ′ ″
東 East.	E.	1	173 11 20	10 40	11 0				
	W.					2	166 31 0	30 20	30 40
	E.	3	173 11 40	11 0	11 20				
	W.					4	166 31 40	31 0	31 20
	E.	5	173 11 50	11 10	11 30				
平均 Means		173° 11′ 16″.7				………… 166° 31′ 0″.0			
西 West.	W.					6	166 29 0	28 10	28 35
	E.	7	173 6 20	5 40	6 0				
	W.					8	166 29 20	28 40	29 0
	E.	9	173 6 50	6 0	6 25				
	W.					10	166 30 0	29 20	29 40
平均 Means.		173° 6′ 12″.5				………… 166° 29′ 5″0			

平均温度 Mean Temperature $t = 81°.5$ fah.

偏針角 Angle of Deflection $u = 3° 19' 21''.7$

搖振時 Oscillations.

振數 No. of Osc.	測時 Time. h	m	s	温度 Temp. °	尺度兩端之視閱數 Extreme Scale-readings.		百振之時 Time of 100 Oscillations. m	s
0	4	15	45.0	80.8	3.8	55.0		
10		16	29.7					
20		17	13.8					
31		18	3.0					
41		18	47.8					
51		19	31.9					
100		23	9.9				7	24.9
110		23	54.7					25.0
120		24	38.9					25.1
131		25	28.0					25.0
141		26	12.3					24.5
151		26	57.2	80.2	15.8	42.4		25.5
平均 Means.				80.5	……………………		7	25.0

拗捩差 Mean effect of 90° of Torsion $v = 2.10$

時儀日差 Daily rate $s = 7.70$ gaining.

成果 Resulting absolute value X = 6.3120

19th Beginning time $4^h\ 10^m$ P. M. / Ending time 5 20

十九日午後四時十分ヨリ同五時二十分ニ至ル

偏針角 Deflections.

磁氣 Mag.	北端 North end.	No.	A ° ′ ″	B ′ ″	Mean. ′ ″	No.	A ° ′ ″	B ′ ″	Mean. ′ ″
東 East.	E.	1	301 50 40	50 0	50 20				
	W.					2	295 11 40	11 0	11 20
	E.	3	301 51 0	50 20	50 40				
	W.					4	295 11 50	11 10	11 30
	E.	5	301 51 10	50 30	50 50				
平均 Means.		301° 50′ 36″.7				………… 295° 11′ 25″.3			
西 West.	W.					6	295 7 0	6 20	6 40
	E.	7	301 44 40	44 0	44 20				
	W.					8	295 6 50	6 20	6 35
	E.	9	301 45 0	44 10	44 35				
	W.					10	295 6 50	6 10	6 30
平均 Means.		301° 44′ 27″.5				………… 295° 6′ 35″.0			

平均温度 Mean Temperature $t = 84°.3$ fah.

偏針角 Angle of Deflection $u = 3° 19' 16.''1$

搖振時 Oscillations.

振數 No. of Osc.	測時 Time. h	m	s	温度 Temp. °	尺度兩端之視閱數 Extreme Scale-readings.		百振之時 Time of 100 Oscillations. m	s
0	4	8	45.2	83.2	0.0	60.0		
10		9	29.8					
20		10	13.9					
31		11	3.2					
41		11	47.7					
51		12	31.8					
100		16	10.0				7	24.8
110		16	54.3					24.5
120		17	38.6					24.7
131		18	27.5					24.3
141		19	12.0					24.3
151		19	57.1	83.0	13.0	47.1		25.3
平均 Means.				83.1	……………………		7	24.65

拗捩差 Mean effect of 90° of Torsion $v = 1.52$

時儀日差 Daily rate $s = 13.45$ gaining.

成果 Resulting absolute value X = 6.3191

十九日ノ傾差測量ハ磁針ノ樞軸ニ少シク故障アリテ完全ナル成果ヲ得ル能ハス

磁氣觀測之月報

東京海軍觀象臺

MONTHLY REPORT OF THE MAGNETICAL OBSERVATIONS,
NAVAL OBSERVATORY, TOKIO.

磁氣偏差 Magnetic Declination.

Day.	° ′	Day.	° ′	Day.	° ′	Day.	° ′	Day.	° ′	Day.	° ′	Day.	° ′	Day.	° ′
1	3 59.9	5	4 1.8	9	4 1.3	13	4 2.6	17	4 1.7	21	4 4.5	25	4 5.3	29	4 8.1
2	4 3.2	6	4 1.9	10	4 2.0	14	4 2.8	18	4 1.4	22	4 4.2	26	4 5.1	30	4 4.1
3	4 3.7	7	3 59.9	11	4 2.1	15	4 4.2	19	4 1.1	23	4 5.4	27	4 4.9	31	4 5.3
4	4 1.1	8	4 4.0	12	4 1.3	16	4 4.3	20	4 7.9	24	4 5.4	28	4 8.2		

平均 Mean = 4° 3′.51

磁氣傾差 Magnetic Inclination.

3rd Beginning / Ending time 5h 10m / 5 40 P. M. 三日午後五時十分ヨリ同時四十分ニ至ル

極端 A Polarity of Marked end A.								極端 B Polarity of Marked end B.							
東面圈 Circle E.				西面圈 Circle W.				西面圈 Circle W.				東面圈 Circle E.			
東面針 Face E.		西面針 Face W.		東面針 Face E.		西面針 Face W.		西面針 Face W.		東面針 Face E.		西面針 Face W.		東面針 Face E.	
A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	
° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′
49 37	49 36	49 53	49 50	49 24	49 25	49 57	49 55	49 21	49 22	49 20	49 24	49 44	49 44	48 59	49 1
49 35	49 33	49 58	49 54	49 24	49 24	49 58	49 56	49 26	49 24	49 28	49 30	49 38	49 37	48 59	49 2
49 36.0	49 34.5	49 55.5	49 52.0	4 24.0	49 24.5	49 57.5	49 55.5	49 23.5	49 23.0	49 24.0	49 27.0	49 41.0	49 40.5	48 59.0	49 1
49 35.3		49 53.7		49 24.1		9 56.5		49 23.3		49 25.5		49 40.7		49 0.1	
49 44.5				49 40.3				49 24.4				49 20.4			
49 42.4								49 22.4							

成果 Resulting Dip = 49° 32′.4

19th Beginning / Ending time 5h 30m / 5 55 P. M. 十九日午後五時三十分ヨリ同時五十五分ニ至ル

極端 A Polarity of Marked end A.								極端 B Polarity of Marked end B.							
東面圈 Circle E.				西面圈 Circle W.				西面圈 Circle W.				東面圈 Circle E.			
東面針 Face E.		西面針 Face W.		東面針 Face E.		西面針 Face W.		西面針 Face W.		東面針 Face E.		西面針 Face W.		東面針 Facle E.	
A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′
49 14	49 13	49 54	49 51	49 32	49 31	50 31	50 26	49 36	49 37	49 27	49 30	49 46	49 44	?	?
49 19	49 17	49 54	49 43	49 32	49 32	50 29	50 26	49 37	49 38	49 26	49 29	49 44	49 43	?	?
9 1[illegible] 5	49 15 0	49 53.0	49 50 0	49 32 5	49 31.5	50 30.0	50 26,0	49 36 5	49 37.5	49 26.5	49 29 5	49 45.0	49 43 5	?	?
49 15.7		49 51 5		49 32 0		50 28 0		49 57.0		49 28.0		49 43.5		?	
49 33.6				50 00.				49 32.5				49 44.3			
49 46.8								49 38.4							

成果 Resulting Dip = 49° 42′.6 ?

天候

WEATHER.

日次 Date.	雲之種類 Kind of Cloud. 巻雲 Cirrus.	積雲 Cumulus	層雲 Stratus.	巻積雲 Cirro-Cumulus.	巻層雲 Cirro-Stratus	積層雲 Cumulo-Stratus.	巻積層雲 Cirro-Cumulo-Stratus.	降雨 Rain.	降雪 Snow.	靄霧 Fog.	全晴 Clear.	陰部 Obscured part.	雨雪水量 Amount of Rain & Snow.
													in
1	...	1	...	...	...	1	...	6	...	...	...	10.0	0.18
2	2	1	...	4	...	...	...	...	...	...	1	4.3	0.03
3	...	2	...	5	1	...	...	...	...	...	...	6.9	...
4	...	2	...	4	...	2	...	...	...	...	...	9.0	...
5	...	1	...	7	...	...	...	...	...	...	...	6.0	...
6	...	1	...	5	2	...	...	...	...	...	...	4.8	...
7	1	...	...	7	...	...	...	...	...	...	...	4.6	...
8	...	...	...	4	1	...	...	...	...	...	3	1.8	...
9	...	...	...	7	...	...	...	...	...	...	1	1.0	...
10	...	...	...	7	...	...	...	...	...	...	1	2.4	...
11	3	...	...	3	...	...	...	...	...	...	2	4.8	...
12	1	1	...	6	...	...	...	...	...	...	...	4.5	...
13	...	...	...	6	...	...	...	...	...	2	...	4.9	...
14	...	...	...	8	...	...	...	...	...	...	...	6 0	...
15	...	...	...	8	...	...	...	...	...	...	...	5.1	...
16	...	...	...	8	...	...	...	...	...	...	...	5.0	...
17	...	1	...	2	...	3	1	1	...	...	...	9.6	00.8
18	...	...	...	8	...	...	...	...	...	...	...	9.0	0 03
19	...	...	...	7	...	...	1	...	...	...	...	7 1	0.29
20	...	1	...	6	...	...	...	1	...	...	...	7.1	0.11
21	...	1	...	3	...	...	3	1	...	...	...	7.5	0 12
22	...	...	...	8	...	...	...	...	...	...	...	4.3	0.02
23	2	...	...	6	...	...	...	...	...	...	...	3.9	...
24	...	...	1	7	...	...	...	...	...	...	...	3.9	...
25	...	...	...	8	...	...	...	...	...	...	...	4.5	...
26	2	...	...	6	...	...	...	...	...	...	...	5.9	...
27	...	...	...	5	...	...	...	2	...	1	...	6.5	...
28	...	...	...	6	...	...	...	2	...	...	...	7.6	0.66
29	...	2	...	2	...	3	1	...	...	...	...	7.9	0.58
30	...	...	...	7	...	1	...	...	...	...	...	7 9	...
31	...	...	...	8	...	...	...	...	...	...	...	4.6	...
合計 Sums.	11	14	1	178	4	10	6	13	...	3	8	...	2.10
平均 Means.	...	...	...	...	...	...	...	...	...	...	...	5.8	...

風
WIND.

日次 Date.	平穩時數 Hours of Calm.	北 N. 時數 Number of Hours.	北 N. 速力 Number of Miles.	東北 N. E. 時數 Number of Hours.	東北 N. E. 速力 Number of Miles.	東 E. 時數 Number of Hours.	東 E. 速力 Number of Miles.	東南 S. E. 時數 Number of Hours.	東南 S. E. 速力 Number of Miles.	南 S. 時數 Number of Hours.	南 S. 速力 Number of Miles.	西南 S. W. 時數 Number of Hours.	西南 S. W. 速力 Number of Miles.	西 W. 時數 Number of Hours.	西 W. 速力 Number of Miles.	西北 N. W. 時數 Number of Hours.	西北 N. W. 速力 Number of Miles.	合計 Total. 時數 Number of Hours.	合計 Total. 速力 Number of Miles.	最强 Strongest. 方位 Directions.	最强 Strongest. 速力 Miles.
1	2	2	14.8	12	72.6	...	...	...	...	...	...	6	37.3	...	...	2	15.0	24	139.7	N.E.	11.9
2	6	...	...	4	3.2	1	2.5	4	34.6	9	33.8	...	...	...	...	...	...	24	74.1	S.E.	10.0
3	6	...	...	...	...	...	...	...	...	18	111 4	...	...	...	...	...	...	24	111.4	S.	14.4
4	1	...	...	...	...	7	44.2	14	107.7	2	6.6	...	...	...	...	...	...	24	158.5	S.	11.3
5	2	...	...	...	...	...	...	9	25.1	13	201.9	...	...	...	...	...	...	24	227.0	S.	*20.6
6	...	...	...	...	...	...	...	...	...	24	236.5	...	...	...	...	...	...	24	236.5	S.	17.7
7	1	...	...	...	...	...	...	...	...	21	224.0	2	5.0	...	...	...	...	24	229.0	S.	18.6
8	1	...	...	...	...	...	...	...	...	22	238.7	1	13.3	...	...	...	...	24	252.0	S.	20.2
9	4	...	...	...	...	...	...	...	...	20	135.9	...	...	...	...	...	...	24	135.9	S.	15.5
10	3	8	30.2	...	...	...	...	...	...	13	64.4	...	...	...	...	...	...	24	94.6	S.	10.8
11	...	6	17.2	...	...	...	...	6	42.5	12	87.5	...	...	...	...	...	...	24	147.2	S.	12.2
12	3	...	...	...	...	...	...	...	...	21	79 4	...	...	...	...	...	...	24	79 4	S.	10.7
13	3	...	...	...	...	3	9.5	2	6.6	16	54.3	...	...	...	...	...	...	24	70.4	S.	8.9
14	2	2	12.6	2	11.8	5	5.7	4	25.2	1	9.8	8	45.4	...	...	...	...	24	110.5	S.W.	10.0
15	...	2	8.4	...	...	1	7.6	3	24.1	1	11.5	13	67.6	1	6.1	3	17.8	24	143.1	S.W.	14.2
16	...	1	5.0	...	...	6	17.6	9	85.0	...	...	7	16.9	...	...	1	5.7	24	130.2	S.E	13.5
17	1	...	...	13	99.4	10	47 3	...	...	...	...	...	...	...	...	...	...	24	146 7	N.E.	11.0
18	...	6	60 2	17	124.2	1	10 7	...	...	...	...	...	...	...	...	...	...	24	195.1	N.	12.0
19	...	...	...	12	67.5	2	22.6	10	74 2	...	...	...	...	...	...	...	...	24	164.3	E.	11.8
20	...	...	...	...	...	...	...	11	52.3	13	103.4	...	...	...	...	...	...	24	155.7	S.	13.3
21	2	...	...	...	...	...	...	...	...	22	168.1	...	...	...	...	...	...	24	168.1	S.	14.4
22	...	...	...	...	...	...	...	...	...	24	218.1	...	...	...	...	...	...	24	218.1	S.	15.2
23	...	...	...	...	...	...	...	3	26.3	21	100.6	...	...	...	...	...	...	24	126 9	S.	11.7
24	1	...	...	...	...	4	26.1	11	59.4	8	16.3	...	...	...	...	...	...	24	101.8	E.	10 0
25	...	3	22 8	7	41.2	12	72.6	2	5.5	...	...	...	...	...	...	...	...	24	142.1	E.	10.0
26	...	...	...	8	61.3	9	40 5	7	21 1	...	...	...	...	...	...	...	...	24	122.9	E.	9.9
27	2	...	...	7	25.3	3	10.7	12	40 1	...	...	...	...	...	...	...	...	24	76.1	S.E.	11.3
28	...	...	...	11	31.4	1	4 5	5	44.4	5	32.8	2	22.4	...	...	...	...	24	135.5	S.	13.3
29	...	8	39.4	1	1.5	...	...	10	52.4	4	6 4	...	...	...	...	1	8.1	24	107.8	S.E.	9 0
30	3	...	...	...	...	...	...	11	30 1	10	87 2	...	...	...	...	...	...	24	117.3	S.	10.5
31	3	...	...	...	...	...	...	...	...	21	210 4	...	...	...	...	...	...	24	210.4	S.	19 2
合計 Sums	46	38	210 6	94	539.4	65	322 1	133	756 6	321	2[illegible]9.0	39	207.9	1	6.1	7	46.6	744	4528.3	..	...
極强 Max.	...	..	...	..	...	..	...	..	...	..	...	..	...	..	...	..	...	..	...	S.	20.6

濕氣百分數

HUMIDITY.

(Saturation = 100)

日次 Date.	午前三時 3 A. M.	午前六時 6 A. M.	午前九時 9 A. M.	正午 Noon.	午後三時 3 P. M.	午後六時 6 P. M.	午後九時 9 P. M.	正子 Midnight.
1	94	100	85	72	76	87	95	95
2	95	90	75	74	58	59	91	95
3	98	93	80	70	48	68	78	89
4	97	88	75	57	58	74	90	93
5	91	89	72	51	53	72	82	82
6	90	79	70	69	65	69	74	77
7	94	94	73	68	61	61	89	89
8	90	87	67	75	68	70	80	81
9	93	91	68	63	66	64	85	91
10	98	91	74	72	56	63	64	83
11	67	71	70	69	55	55	78	93
12	98	92	72	66	69	61	78	92
13	99	98	72	63	51	72	80	84
14	94	92	60	57	49	58	77	77
15	74	83	51	61	53	50	68	75
16	76	84	58	57	40	61	77	83
17	89	89	79	78	84	75	83	89
18	90	89	73	79	71	85	91	94
19	95	94	91	70	65	82	89	92
20	98	93	80	70	63	77	87	95
21	95	94	91	90	90	88	94	95
22	97	96	78	60	60	70	89	92
23	95	95	72	61	61	68	80	84
24	91	94	76	53	58	61	75	92
25	97	92	73	58	60	64	81	95
26	98	94	69	61	41	70	79	91
27	98	99	70	51	64	91	87	97
28	98	97	75	64	57	77	79	93
29	97	97	83	74	60	66	65	70
30	88	95	75	61	69	76	90	94
31	98	94	71	65	68	73	82	76
平均 Means.	93	91	73	66	61	70	82	88

蒸發力

ELASTIC FORCE OF VAPOUR.

日次 Date.	午前三時 3 A. M.	午前六時 6 A. M.	午前九時 9 A. M.	正午 Noon.	午後三時 3 P. M.	午後六時 6 P. M.	午後九時 9 P. M.	正子 Midnight.
	in	in	in	in	in	in	in	in
1	0.543	0.576	0.548	0.514	0.541	0.570	0.566	0.562
2	0.564	0.574	0.617	0.689	0.590	0.592	0.646	0.624
3	0.664	0.655	0.678	0.716	0.564	0.607	0.601	0.646
4	0.664	0.605	0.626	0.564	0.607	0.650	0.680	0.684
5	0.639	0.650	0.697	0.611	0.564	0.680	0.699	0.675
6	0.697	0.633	0.655	0.718	0.716	0.694	0.687	0.689
7	0.711	0.692	0.704	0.741	0.713	0.668	0.741	0.680
8	0.657	0.675	0.706	0.788	0.766	0.736	0.713	0.673
9	0.731	0.731	0.782	0.793	0.854	0.790	0.818	0.790
10	0.772	0.769	0.877	0.915	0.826	0.810	0.723	0.857
11	0.668	0.711	0.834	0.823	0.815	0.661	0.756	0.788
12	0.837	0.820	0.812	0.846	0.897	0.854	0.810	0.799
13	0.793	0.766	0.807	0.826	0.804	0.840	0.877	0.779
14	0.820	0.799	0.761	0.860	0.818	0.799	0.820	0.744
15	0.706	0.804	0.684	0.851	0.785	0.657	0.713	0.749
16	0.701	0.807	0.764	0.810	0.759	0.731	0.790	0.785
17	0.801	0.829	0.769	0.761	0.756	0.668	0.652	0.648
18	0.644	0.648	0.655	0.756	0.738	0.790	0.766	0.766
19	0.751	0.761	0.810	0.823	0.804	0.832	0.823	0.829
20	0.820	0.801	0.826	0.790	0.754	0.807	0.820	0.820
21	0.820	0.823	0.891	0.854	0.894	0.863	0.863	0.832
22	0.863	0.865	0.871	0.761	0.782	0.764	0.829	0.834
23	0.799	0.801	0.785	0.751	0.756	0.675	0.766	0.751
24	0.779	0.741	0.764	0.673	0.721	0.671	0.697	0.728
25	0.723	0.728	0.721	0.678	0.711	0.716	0.741	0.769
26	0.741	0.741	0.741	0.708	0.675	0.746	0.818	0.759
27	0.777	0.807	0.736	0.657	0.815	0.837	0.788	0.788
28	0.741	0.761	0.766	0.723	0.718	0.759	0.716	0.766
29	0.826	0.692	0.721	0.766	0.796	0.697	0.613	0.650
30	0.711	0.779	0.779	0.764	0.799	0.818	0.880	0.963
31	0.883	0.874	0.843	0.848	0.885	0.796	0.7[illegible]9	0.731
平均 Means.	0.737	0.739	0.749	0.754	0.749	0.735	0.749	0.744

露點温度

DEW POINT.

日次 Date.	午前三時 3 A. M.	午前六時 6 A. M.	午前九時 9 A. M.	正午 Noon.	午後三時 3 P. M.	午後六時 6 P. M.	午後九時 9 P. M.	正子 Midnight.
	°	°	°	°	°	°	°	°
1	61.3	63.0	61.6	59.8	61.2	62.7	62.5	62.3
2	62.4	62.9	65.0	68.2	63.7	63.8	66.3	65.3
3	67.1	66.7	67.7	69.4	62.4	64.5	64.2	66.3
4	67.1	64.4	65.4	62.4	64.5	66.5	67.8	68.0
5	66.0	66.5	68.2	64.7	62.4	67.8	68.6	67.6
6	68.5	65.7	66.7	69.4	69.3	68.4	68.1	68.2
7	69.1	68.3	68.8	70.3	69.2	67.3	70.3	67.8
8	66.8	67.6	68.9	72.1	71.3	70.1	69.2	67.5
9	69.9	69.9	71.9	72.3	74.5	72.2	73.2	72.2
10	71.5	71.4	75.3	76.6	73.5	72.9	69.6	74.6
11	67.3	69.1	73.8	73.4	73.1	67.0	70.9	72.1
12	73.9	73.3	73.0	74.2	76.0	74.5	72.9	72.5
13	72.3	71.3	72.8	73.5	72.7	74.0	75.3	71.8
14	73.3	72.5	71.1	74.7	73.2	72.5	73.3	70.4
15	68.9	72.7	68.0	74.4	72.0	66.8	69.2	70.6
16	68.7	72.8	71.2	72.9	71.0	69.9	72.2	72.0
17	72.6	73.6	71.4	71.1	70.9	67.3	66.6	66.4
18	65.2	66.4	66.7	70.9	70.2	72.2	71.3	71.3
19	70.7	71.1	72.9	73.4	72.7	73.7	73.4	73.6
20	73.3	72.6	73.5	72.2	70.8	72.8	73.3	73.3
21	73.3	73.4	75.8	74.5	75.9	74.8	74.8	73.7
22	74.8	74.9	75.1	71.1	71.9	7 .2	73.6	73.8
23	72.5	72.6	72.0	70.7	70.9	67.6	71.3	70.7
24	71.8	70.3	71.2	67.5	69.5	67.4	68.5	69.8
25	69.6	69.8	69.5	67.7	69.1	69.3	70.3	71.4
26	70.3	70.3	70.3	69.0	67.6	70.5	73.2	71.0
27	71.7	72.8	70.1	66.8	73.1	73.9	72.1	72.1
28	70.3	71.1	71.3	69.6	69.4	71.0	69.3	71.3
29	73.5	68.3	69.5	71.3	72.4	68.5	64.8	65.6
30	69.1	71.8	71.8	71.2	72.5	73.2	75.4	76.2
31	75.5	75.2	74.1	74.3	75.6	72.4	72.5	69.9
平均 Means.	70.0	70.1	70.5	70.6	70.4	69.9	70.5	70.3

寒暑鍼

THERMOMETER.

日次 Date.	午前三時 3 A. M.	午前六時 6 A. M.	午前九時 9 A. M.	正午 Noon.	午後三時 3 P. M.	午後六時 6 P. M.	午後九時 9 P. M.	正子 Midnight.
	°	°	°	°	°	°	°	°
1	62.8	63.0	66.3	69.2	69.2	66.7	64.0	63.8
2	64.0	65.8	73.8	77.0	79.6	79.0	69.0	66.9
3	67.8	68.7	74.3	80.0	84.0	76.0	71.6	70.0
4	68.0	68.0	74.0	78.9	80.3	75.5	71.0	70.0
5	69.0	69.9	78.0	80.3	81.1	75.2	73.0	72.0
6	71.0	71.0	77.2	80.3	82.3	76.9	76.4	76.0
7	70.9	70.1	78.0	82.0	83.8	82.0	73.8	72.9
8	70.0	72.0	81.0	80.5	82.8	81.0	75.7	73.7
9	72.0	72.5	83.5	86.0	87.2	85.2	78.0	74.9
10	72.2	74.0	84.4	86.7	91.3	86.8	83.0	80.3
11	79.1	79.2	84.5	84.6	89.0	85.1	78.0	74.3
12	74.0	75.5	82.8	86.9	87.3	86.5	78.2	74.4
13	72.8	72.7	82.8	87.6	86.8	84.0	82.0	75.0
14	75.3	74.9	86.3	92.0	95.3	88.8	81.3	78.0
15	77.8	78.3	88.0	89.9	91.7	87.5	81.0	79.0
16	76.5	77.9	87.5	90.3	91.5	84.9	80.1	77.3
17	75.8	76.8	78.5	78.2	76.0	76.0	72.2	70.1
18	69.4	69.9	76.2	78.0	82.2	77.0	74.0	73.0
19	72.1	72.8	75.6	84.5	85.5	79.5	76.8	76.0
20	74.0	74.8	80.2	83.0	84.8	80.7	77.5	75.0
21	75.0	75.3	78.8	78.2	79.1	79.0	77.0	75.4
22	75.8	76.1	82.8	86.2	87.5	82.0	77.0	76.2
23	73.9	74.1	81.5	85.5	85.9	79.0	77.8	75.8
24	74.4	72.0	79.3	86.7	86.0	82.0	77.0	72.2
25	70.5	72.2	78.6	83.8	84.0	82.9	76.4	72.8
26	71.0	72.0	81.6	83.6	85.1	81.4	78.1	73.9
27	72.4	73.3	81.0	86.8	86.5	76.8	76.2	73.0
28	71.0	72.0	79.5	83.0	86.2	79.0	76.3	72.8
29	74.5	69.4	75.0	80.5	84.0	81.3	77.6	76.2
30	72.9	73.4	80.2	86.0	83.8	81.5	78.8	78.2
31	76.2	77.2	84.5	87.5	87.4	82.0	78.6	77.9
平均 Means.	72.3	72.7	79.9	83.3	84.7	80.7	76.4	74.1

改正風雨鍼

BAROMETER.

Reduced to 32° F. and sea level.

日次 Date.	午前三時 3 A. M.	午前六時 6 A. M.	午前九時 9 A. M.	正午 Noon.	午後三時 3 P. M.	午後六時 6 P. M.	午後九時 9 P. M.	正子 Midnight.
	in	in	in	in	in	in	in	in
1	29.724	29.718	29.737	29.729	29.732	29.759	29.813	29.787
2	29.754	29.820	29.812	29.798	29.775	29.776	29.826	29.830
3	29.839	29.851	29.875	29.849	29.851	29.839	29.857	29.892
4	29.903	29.940	29.951	29.942	29.924	29.938	29.975	29.982
5	29.991	29.990	29.988	29.965	29.934	29.937	29.955	29.979
6	29.960	29.980	29.972	29.947	29.911	29.905	29.910	29.921
7	29.931	29.945	29.933	29.911	29.881	29.878	29.898	29.912
8	29.892	29.904	29.873	29.831	29.795	29.782	29.821	29.788
9	29.795	29.817	29.817	29.784	29.748	29.744	29.782	29.800
10	29.797	29.800	29.790	29.742	29.711	29.751	29.805	29.811
11	29.818	29.870	29.887	29.862	29.855	29.864	29.895	29.894
12	29.878	29.899	29.889	29.856	29.839	29.835	29.877	29.875
13	29.864	29.875	29.840	29.847	29.817	29.838	29.873	29.844
14	29.816	29.843	29.848	29.811	29.774	29.802	29.825	29.814
15	29.806	29.815	29.831	29.817	29.788	29.786	29.814	29.810
16	29.797	29.835	29.837	29.823	29.808	29.835	29.905	29.892
17	29.877	29.916	29.946	29.948	29.939	29.940	29.975	29.975
18	29.955	29.963	29.960	29.952	29.926	29.929	29.947	29.952
19	29.935	29.955	29.942	29.920	29.892	29.900	29.933	29.931
20	29.931	29.943	29.962	29.952	29.938	29.950	29.989	29.995
21	29.967	29.968	29.975	29.937	29.937	29.935	29.962	29.950
22	29.925	29.953	29.965	29.936	29.904	29.904	29.918	29.922
23	29.914	29.932	29.940	29.925	29.888	29.882	29.941	29.939
24	29.916	29.949	29.963	29.938	29.920	29.934	29.961	29.959
25	29.951	29.976	29.967	29.914	29.922	29.916	29.933	29.948
26	29.924	29.922	29.911	29.874	29.837	29.830	29.844	29.829
27	29.814	29.813	29.794	29.743	29.699	29.705	29.745	29.750
28	29.716	29.759	29.760	29.749	29.729	29.767	29.812	29.817
29	29.800	29.845	29.861	29.849	29.832	29.835	29.885	29.888
30	29.873	29.902	29.916	29.904	29.881	29.868	29.874	29.868
31	29.842	29.830	29.834	29.804	92.775	29.748	29.711	29.757
平均 Means.	29.868	29.888	29.890	29.867	29.844	29.849	29.879	29.881

氣象觀測之月報

東京海軍觀象臺

MONTHLY REPORT

OF THE

METEOROLOGICAL OBSERVATIONS,

NAVAL OBSERVATORY, TOKIO.

Lat. 35° 39′ 17″5 N. Long. 139° 44′ 30″3 E. Height above sea-level 70 feet.

日次 Date.	改正風雨鍼 Barometer. Reduced to 32 F. & sea level.			寒暑鍼 Thermometer.			露點温度 平均 Mean Temp. of Dew point.	蒸發力 平均 Mean elastic force of Vapour.	濕氣百分數 平均 Mean Humidity (Sat.=100)	無氣中日温度 極高 Vacuum solar radiation Max.	日温度 極高 Solar radiation Max.	地温度 極低 Terrestrial radiation Min.
	平均 Mean.	極高 Max.	極低 Min.	平均 Mean.	極高 Max.	極低 Min.						
	in	in	in	°	°	°	°	in		°	°	°
1	29.750	29.813	29.718	75.6	70.7	* 61.9	61.8	0.553	88	114.0	87.2	* 50.5
2	29.799	29.830	29.754	71.9	81.0	63.0	64.7	0.612	80	149.5	107.8	51.0
3	29.858	29.892	29.839	74.1	84.8	62.8	66.0	0.641	78	146.8	107.3	51.8
4	29.944	29.982	29.903	73 2	82.8	66.9	65.8	0.635	79	146.7	106.2	52 0
5	29.967	29.991	29.934	74.8	82.8	67.9	66.5	0.652	74	141 0	100.5	52.0
6	29.938	29.980	29.905	76.4	83.4	69.0	68.0	0.686	74	147.8	104.8	55.5
7	29.911	29.945	29.878	76.7	86.5	69.2	68.9	0 706	79	149.0	108.9	55.4
8	29.8[illegible]6	29.904	29.782	77.1	84.9	68.7	69 2	0.714	77	148.1	100.7	53.5
9	29.786	29.817	29.744	79.9	87.7	68.6	72.0	0.786	78	151 3	110.4	55.0
10	29.776	29.811	* 29.711	82.3	91.8	71.0	73.2	0.819	75	151.3	111.6	54.9
11	29.868	29.895	29.818	81.7	89.0	74.0	70.8	0.757	70	155.1	114.8	58.3
12	29.869	29.899	29.835	80.7	90.4	72.5	73.8	0.834	79	153.3	112.8	56.3
13	29.850	29.875	29.817	80.5	90.1	72.0	73.0	0.812	77	151 5	112.3	57.6
14	29.817	29.848	29.774	84 0	* 96.3	74.1	72.6	0 803	71	152.0	* 117 2	60.2
15	29.803	29.831	29.786	84.2	93.1	76.0	70.3	0.744	64	152.5	114.8	58.6
16	29 842	29 905	29.797	83.3	93.1	75.0	71.3	0.768	67	151.2	115.1	59.8
17	29.9[illegible]0	29.975	29.877	75.5	80.7	69.8	70.0	0.736	83	121 5	9[illegible] 1	56.0
18	29.948	29.963	29.926	74.7	81 8	68 0	69.4	0 720	84	130.3	100.0	53.6
19	29.926	29.955	29.892	77.9	87.5	71.5	72.7	0.804	85	156.0	114.1	57.9
20	29.958	* 29.995	29.931	78.8	85.8	73.7	72.7	0 805	83	152.0	110.2	60.4
21	29.954	29.975	29.935	77.2	82 9	74.0	74.5	0 855	92	140.0	107.8	60.5
22	29.928	29.965	29.9[illegible]4	80.5	88 6	74.0	73 3	0.821	80	148.5	101.0	60.8
23	29.920	29.941	29.882	79 2	88.5	73.0	71.0	0.761	77	158.6	115.6	57.6
24	29 9[illegible]3	29.9[illegible]3	29.916	78.7	88.6	71.3	69.5	0.722	75	* 159.1	116.3	56.0
25	29.945	29.976	29.916	77.7	86.0	69.5	69.6	0.723	78	149.1	112.9	55.5
26	29.871	29.924	29.829	78 5	87.8	70 0	70 3	0.741	75	151 9	113.8	56.1
27	29.758	29.814	29.699	79.3	89.8	71.9	71.6	0.776	82	153.6	116.3	54.5
28	29.764	29.817	29.716	77.5	87.0	70.5	70.4	0.744	81	154.3	110 0	56.5
29	29.849	29.888	29.800	77.3	86.0	68.8	69.2	0.718	77	154.9	112 0	55.6
30	29.886	29.916	29.868	79.4	87.1	72 3	72.7	0.804	81	157.8	113.4	57 5
31	29.795	29.842	29.737	81.4	88.0	75.7	73.7	0.831	78	153.4	115.0	60.0
平均 Means.	29.871	...	...	78.0	...	...	70.3	0.745	78	...	...	...
極至 Max. & Min.	...	29.995	29.711	...	96.3	61.9	...	...	...	159.1	117.2	50.5

凡例

一風雨鍼ハ氷點及海面ニ改正ス
一寒暑鍼ハ都テ華氏ノ度表ヲ用フ
一露點、濕氣、蒸發力、ハ燥濕兩球寒暑鍼ノ實驗ヨリ算出ス
一風ノ方向及速力ハ自記驗風儀ヲ以テ之ヲ測ル而シテ方向ハ八點ニ分チ速力ハ英里ヲ以テ算ス
一天候ノ表中降雨、降雪、靄霧、雲ノ種類ハ悉皆觀望ノ時數ヲ掲ゲ陰部ハ一日間全陰ヲ十トシ他ハ之ニ比例ス
一又雨雪ノ水積ハ毎午前九時ニ實驗シ英寸ヲ以テ之ヲ示ス

一磁氣偏差ハ連日午前七時傾差及地平磁針力ハ連月兩回之ヲ觀測ス
一此觀測ノ用器ハ偏差儀傾差儀及「ユニフアイラ」磁氣儀ナリ
一偏針角ノ觀測ニ於テ兩磁氣中心ノ相距ハ一、三英尺トス
一搖振時ノ觀測ニ用フル磁氣ノ尺度一劃分ノ價ハ二分、三七ナリ

NOTE.

The Barometer readings are reduced to freezing point (32° F) and sea level.

Dew point, Humidity and Elastic force of Vapour are deduced from the readings of the dry and wet bulb thermometers.

Direction and Velocity of Wind are measured by Glayser's anemograph.

The numbers under the headings of Rain, Snow, Fog and the kinds of Cloud (C. K. S. N. or Rain) denote how many, out of eight observations made in a day, are either of them.

The portion of sky obscured is determined by estimation after a careful scrutiny of the clouds or sky. A clear sky is denoted by 0, and a total obscuration by 10.

The amount of Rain and Snow are measured at 9 a. m.

The Magnetic declination is observed at 7 a. m. every day, the inclination and the horizontal intensity twice a month, the instruments in use being Declinometer, Inclinometer, and Unifilar Magnetometer.

The apparent distance between the centers of the deflecting and the suspending magnets in the observation of deflection, $r = 1.3$ feet.

The angular value of one scale division of the vibration magnet = $2'.37$.

晴天 B. (Blue Sky). 陰天 C. (Cloudy Weather). 濛雨 D. (Drizzling, or Light Rain).
地震 E. (Earthquake). 霧 F. (Fog). 暗黒 G. (Dark, gloomy). 霰 H. (Hail).
霜 H. F. (Hoar Frost). 電 L. (Lightning). 濃霧 M. (Misty). 陰雲 O. (Overcast).
驟雨 P. (Passing shower). 嵐 Q. (Squally). 雨 R. (Rain). 雪 S. (Snow). 雷 T. (Thunder).
天氣險惡ノ模樣 U. (Ugly, threatening). 天氣不定 V. (Variable Weather). 露 W. (Dew).
霞霧 Z. (Hazy). 日暈 *s. h.* (Solar Halo). 月暈 *l. h.* (Lunar Halo). 虹 *r. b.* (Rainbow).
風 *w* (Wind). The force of wind is expressed by w_1, w_2, &c, as w_1= slight, w_5= strongest.
快晴 *f. p.* (Fine and pleasant). 薄晴 *f. d.* (Fine, but dull). 薄陰 *d.* (Dull).

氣象及磁氣月報

東　京

海軍水路部觀象臺

明治十九年七月

MONTHLY REPORT

OF THE

METEOROLOGICAL AND MAGNETICAL OBSERVATIONS,

DURING

JULY 1886,

AT THE

NAVAL OBSERVATORY,

IN THE

HYDROGRAPHIC OFFICE

TOKIO.